

## Onboard Passenger Information Display System

# ARD-RS2860

## Datasheet

Preliminary



**AUO**  
AUO Display+

  
**EN50155**

### Features

- 28.6" stretched type TFT LCD, 1920 x 540 resolution
- AUO TARTAN display technology
- EN50155 compliant for railway
- Sunlight readable & High Brightness: 1000 nits
- Intel Atom® Amston Lake processor with Debian
- Wide range DC 24-110V power input
- EN50155 -25°C - 55°C OT1 level / EN45545-2
- Auto-dimming for readability and eco-friendliness
- Anti-shock and vibration

### Specifications

|         |                         |                                             |
|---------|-------------------------|---------------------------------------------|
| Display | Active Screen Size      | 28.6" TFT LCD panel (AUO Tartan Technology) |
|         | Resolution              | 1920 x 540                                  |
|         | Brightness              | 1000 nits                                   |
|         | Contrast Ratio          | 5000:1                                      |
|         | Backlight Lifetime      | 50,000 hrs                                  |
|         | Viewing Angle (U/D/R/L) | 89/89/89/89                                 |
|         | Color                   | 16.7M                                       |
|         | Display Area            | 698.4 (W) × 196.425 (V) mm                  |
|         |                         |                                             |

## Specifications

|                  |                                    |                                                                                                                         |
|------------------|------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| System           | Processor                          | Intel Atom® x7211RE Processor, 2-core, 1.0GHz (up to 3.2GHz), 6W TDP                                                    |
|                  | Memory                             | 4GB LPDDR                                                                                                               |
|                  | Storage                            | 32GB eMMC                                                                                                               |
|                  | Expansion                          | 1x M.2 2242 M-Key socket for SSD                                                                                        |
|                  | External I/O                       | 2x M12 D-code Ethernet 10/100 Mbit/s                                                                                    |
|                  | Maintenance I/O<br>(Screwed Panel) | 1x USB 3.0 Type A<br>1x USB 3.0 Type C (supports USB 3.0, DP-out)<br>1x HDMI-in<br>1x Reset Button                      |
|                  | Sensor                             | 1x Built-in ambient light sensor                                                                                        |
| Mechanical       | Dimensions                         | 749 (W) x 247 (H) x 60 (D) mm ±1 mm                                                                                     |
|                  | Weight                             | 9.2kg                                                                                                                   |
|                  | Mounting                           | Panel mount with threaded inserts on four sides and back cover                                                          |
|                  | Cooling                            | Fanless design with passive cooling                                                                                     |
|                  | Housing                            | Metal                                                                                                                   |
|                  | Ingress Protection                 | IP65 Front                                                                                                              |
|                  | Glass                              | 3mm enhanced glass, IK08 grade glass<br>Coating options: Anti-glare/Anti-reflection<br>(available upon request)         |
| Operating System | Supported OS                       | Debian (Windriver eLxr 12)<br>Windows® 11 IoT Enterprise LTSC 2024                                                      |
| Miscellaneous    | Power Connector                    | 1x M12 A-code connector                                                                                                 |
|                  | Power                              | +24 - 110V DC                                                                                                           |
|                  | Battery                            | CR2032X coinell battery by default                                                                                      |
| Environmental    | Operating Temperature              | -25°C - 55°C                                                                                                            |
|                  | Storage Temperature                | -40°C - 85°C                                                                                                            |
|                  | Humidity                           | Operating: 10% to 95% relative humidity (non-condensing)<br>Non-Operating: 5% to 95% relative humidity (non-condensing) |
|                  | Standards                          | EN50155, EN45545-2 Compliant                                                                                            |

## Ordering Information

|                |                                                                        |
|----------------|------------------------------------------------------------------------|
| ARD-RS2860/ASL | Railway onboard 28.6" PIDS with Intel Atom® x7211RE, 2-core, 1000 nits |
|----------------|------------------------------------------------------------------------|

## Optional Accessories

|                    |                                      |
|--------------------|--------------------------------------|
| ARD PIDS cable kit | 2x M12 D-code Ethernet to RJ45 cable |
|--------------------|--------------------------------------|

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